



Replacement Sheet

9pLMAR2

TGCCGCCTTCTTTGATATTC

SEQ ID NO: 1

LE-6.1kbrev1

TTGGTGGTAAGGCCTTTTTTG

SEQ ID NO: 2

Lys-6.1

CTGGCAAGCTGTCAAAAACA

SEQ ID NO: 3

LysE1rev

CAGCTCACATCGTCCAAAGA

SEQ ID NO: 4

LYSBSU

CCCCCCCCTAAGGCAGCCAGGGGCAGGAAGCAAA

SEQ ID NO: 5

SalItoNotI

TCGAGCGGCCGC

SEQ ID NO: 6

T7

TAATACGACTCACTATAGGG

SEQ ID NO: 7

lys61enfor1

CGTGGTGATCAAACTCTTTGTG

SEQ ID NO: 8

lys61enrev1

AGGAGGGCACAGTAGGGATC

SEQ ID NO: 9

5MARfor1

GTGGCCTGTGTCTGTGCTT

SEQ ID NO: 10

IFN-3rev

AACTCCTCTTGAGGAAAGCC

SEQ ID NO: 11

lys001rev

TCCTGTTTGGGATGAATGGT

SEQ ID NO: 12

lys002for

CTCTCAGAATGCCCAACTCC

SEQ ID NO: 13

lys003for

TGTATTGGTCTCCCTCCTGC

SEQ ID NO: 14

lys005for

TGTTGAAATTGCAGTGTGGC

SEQ ID NO: 15

lys006rev

TGACAATGCAAATTTGGCTC

SEQ ID NO: 16

Fig. 1a

Replacement Sheet

lys007for GATATCCTTGCACTGCCCAT	SEQ ID NO: 17
lys008rev GGACAAGCAAGTGCATCAGA	SEQ ID NO: 18
lys009for CTGATGTGCTTCAGCTCTGC	SEQ ID NO: 19
lys010rev TCCATGGTGGTCAAACAGAA	SEQ ID NO: 20
lys011for GTACTAGACCAGGCAGCCCA	SEQ ID NO: 21
lys012rev GTGGGAAGTACCACATTGGC	SEQ ID NO: 22
lys013for CGCTCAGGAGAAAGTGAACC	SEQ ID NO: 23
lys014rev CGGTTTGCCTTTGTGTTTT	SEQ ID NO: 24
lys015rev AAATGCTCGATTTTCATTGGG	SEQ ID NO: 25
lys016rev GCCAATCAGACTGCATTTCA	SEQ ID NO: 26
lys017rev AACCGCTGAATGGAACAGTC	SEQ ID NO: 27
lys018for ACACGCACATATTTTGCTGG	SEQ ID NO: 28
lys019rev CAGGAGCTGGATTCCTTCAG	SEQ ID NO: 29
lys020for AAAGGATGCAGTCCCAAATG	SEQ ID NO: 30
lys021rev GCCCCTAGACTCCATCTTCC	SEQ ID NO: 31
lys022rev ATTTGCTGTGGTGGATGTGA	SEQ ID NO: 32

Fig. 1b

Replacement Sheet

lys024for CCTTGCAGTCCTTGGTTTGT	SEQ ID NO: 33
lys025rev ATGATCCTTCTGATGGGCTG	SEQ ID NO: 34
lys026rev ACAGTGATAGCACAAGGGGG	SEQ ID NO: 35
lys027rev GTAAACAGCTGCAACAGGCA	SEQ ID NO: 36
lys028rev CAACACAAAAGTTGGACAGCA	SEQ ID NO: 37
lys029rev TTTGCAGATGAGACGTTTGC	SEQ ID NO: 38
lys030rev CCACAAGTTCTTGTTGGGC	SEQ ID NO: 39
lys031rev ATCAATCCATGCCAGTAGCC	SEQ ID NO: 40
lys032rev GTTTAAGGCCCTTCCAATC	SEQ ID NO: 41
lys033for GAGAGGGGGTTGGGTGTATT	SEQ ID NO: 42
lys034for ACAGTGGAAGCATTCAAGGG	SEQ ID NO: 43
lys037for CCAATGCCTTTGGTTCTGAT	SEQ ID NO: 44
lys038for AAAACACAAAGGCAAAACCG	SEQ ID NO: 45
lys039rev CTAAGCCTCGCCAGTTTCAA	SEQ ID NO: 46
lys040rev TGCCATGAAAACCCTACTGA	SEQ ID NO: 47
lys041for GGAATGTACCCTCAGCTCCA	SEQ ID NO: 48

Fig. 1c

Replacement Sheet

lys042rev CCTCTTTAGGAGGCCAGCTT	SEQ ID NO: 49
lys043rev AAGATGATCAGAGGGCTGGA	SEQ ID NO: 50
lys044rev GCAGCGCTGGTAATCTTCAT	SEQ ID NO: 51
lys045for CTTCAGATCCCAGGAAGTGC	SEQ ID NO: 52
lys046for TTCCTGCCTTACATTCTGGG	SEQ ID NO: 53
lys047for CCCACTGCAGGCTTAGAAAG	SEQ ID NO: 54
lys048for AGTTCTCCATAGCGGCTGAA	SEQ ID NO: 55
lys051for TGCATCCTTCAGCACTTGAG	SEQ ID NO: 56
lys052rev GCAGGAGGGAGACCAATACA	SEQ ID NO: 57
lys053for TGCACAAGGATGTCTGGGTA	SEQ ID NO: 58
lys054for TCCTAGCAACTGCGGATTTT	SEQ ID NO: 59
lys056for TCTTCCATGTTGGTGACAGC	SEQ ID NO: 60
lys058for CCCCCTTGCTATCACTGT	SEQ ID NO: 61
lys059for CTGACAGACATCCCAGCTCA	SEQ ID NO: 62
lys060for AAGTTGTGCTTCTGCGTGTG	SEQ ID NO: 63
lys061for TTGTTCCCTGCTGTTCCCTCCT	SEQ ID NO: 64

Fig. 1d

SEQ ID NO: 65

TGCCGCCTTC	TTTGATATTC	ACTCTGTTGT	ATTTTCATCTC	TTCTTGCCGA	TGAAAGGATA	60
TAACAGTCTG	TATAACAGTC	TGTGAGGAAA	TACTTGGTAT	TTCTTCTGAT	CAGTGTTTTT	120
ATAAGTAATG	TTGAATATTG	GATAAGGCTG	TGTGTCCTTT	GTCTTGGGAG	ACAAAGCCCA	180
CAGCAGGTGG	TGGTTGGGGT	GGTGGCAGCT	CAGTGACAGG	AGAGGTTTTT	TTGCCTGTTT	240
TTTTTTTTTTT	TTTTTTTTTTT	AAGTAAGGTG	TTCTTTTTTTC	TTAGTAAATT	TTCTACTGGA	300
CTGTATGTTT	TGACAGGTCA	GAAACATTTT	TTCAAAAGAA	GAACCTTTTG	GAAACTGTAC	360
AGCCCTTTTTC	TTTCATTCCC	TTTTTGCTTT	CTGTGCCAAT	GCCTTTGGTT	CTGATTGCAT	420
TATGGAAAAC	GTTGATCGGA	ACTTGAGGTT	TTTATTTTATA	GTGTGGCTTG	AAAGCTTGGA	480
TAGCTGTTGT	TACACGAGAT	ACCTTATTAA	GTTTAGGCCA	GCTTGATGCT	TTATTTTTTTC	540
CCTTTGAAGT	AGTGAGCGTT	CTCTGGTTTT	TTTCCTTTGA	AACTGGTGAG	GCTTAGATTT	600
TTCTAATGGG	ATTTTTTTACC	TGATGATCTA	GTTGCATACC	CAAATGCTTG	TAAATGTTTT	660
CCTAGTTAAC	ATGTTGATAA	CTTCGGATTT	ACATGTTGTA	TATACTTGTC	ATCTGTGTTT	720
CTAGTAAAAA	TATATGGCAT	TTATAGAAAT	ACGTAATTCC	TGATTTCCCT	TTTTTTTTATC	780
TCTATGCTCT	GTGTGTACAG	GTCAAACAGA	CTTCACTCCT	ATTTTTATTT	ATAGAATTTT	840
ATATGCAGTC	TGTCGTTGGT	TCTTGTGTTG	TAAGGATACA	GCCTTAAATT	TCCTAGAGCG	900
ATGCTCAGTA	AGGCGGGTTG	TCACATGGGT	TCAAATGTAA	AACGGGCACG	TTTGGCTGCT	960
GCCTTCCCGA	GATCCAGGAC	ACTAACTGC	TTCTGCACTG	AGGTATAAAT	CGCTTCAGAT	1020
CCCAGGGAAG	TGCAGATCCA	CGTGCAATTT	CTTAAAGAAG	AATGAATACT	TTCTAAAATA	1080
TTTTGGCATA	GGAAGCAAGC	TGCATGGATT	TGTTTGGGAC	TTAAATTATT	TTGGTAACGG	1140
AGTGCATAGG	TTTTAAACAC	AGTTGCAGCA	TGCTAACGAG	TCACAGCGTT	TATGCAGAAG	1200
TGATGCCCTGG	ATGCCTGTTG	CAGCTGTTTA	CGGCACTGCC	TTGCAGTGAG	CATTGCAGAT	1260
AGGGGTGGGG	TGCTTTGTGT	CGTGTTCCTA	CACGCTGCCA	CACAGCCACC	TCCCGGAACA	1320
CATCTCACCT	GCTGGGTACT	TTTCAAACCA	TCTTAGCAGT	AGTAGATGAG	TTACTATGAA	1380
ACAGAGAAGT	TCCTCAGTTG	GATATTCTCA	TGGGATGTCT	TTTTTCCCAT	GTTGGGCAAA	1440
GTATGATAAA	GCATCTCTAT	TTGTAAATTA	TGCACCTGTT	AGTTCCTGAA	TCCTTTCTAT	1500
AGCACCACCT	ATTGCAGCAG	GTGTAGGCTC	TGGTGTGGCC	TGTGTCTGTG	CTTCAATCTT	1560
TTAAAGCTTC	TTTGGAAATA	CACTGACTTG	ATTGAAGTCT	CTTGAAGATA	GTAAACAGTA	1620
CTTACCTTTG	ATCCCAATGA	AATCGAGCAT	TTCAGTTGTA	AAAGAATTCC	GCCTATTCAT	1680
ACCATGTAAT	GTAATTTTAC	ACCCCCAGTG	CTGACACTTT	GGAATATATT	CAAGTAATAG	1740
ACTTTGGCCT	CACCCTCTTG	TGTACTGTAT	TTTGTAAATAG	AAAATATTTT	AAACTGTGCA	1800
TATGATTATT	ACATTATGAA	AGAGACATTC	TGCTGATCTT	CAAATGTAAG	AAAATGAGGA	1860
GTGCGTGTGC	TTTTATAAAT	ACAAGTGATT	GCAAATTAGT	GCAGGTGTCC	TTAAAAAATA	1920
AAAAAAAAAG	TAATATAAAA	AGGACCAGGT	GTTTTACAAG	TGAAATACAT	TCCTATTTGG	1980
TAAACAGTTA	CATTTTTTATG	AAGATTACCA	GCGCTGCTGA	CTTTCTAAAC	ATAAGGCTGT	2040
ATTGTCTTCC	TGTACCATTG	CATTTCCTCA	TTCCCAATTT	GCACAAGGAT	GCTTGGGTAA	2100
ACTATTCAAG	AAATGGCTTT	GAAATACAGC	ATGGGAGCTT	GTCTGAGTTG	GAATGCAGAG	2160
TTGCATGCA	AAATGTCAGG	AAATGGATGT	CTCTCAGAAT	GCCCAACTCC	AAAGGATTTT	2220
ATATGTGTAT	ATAGTAAGCA	GTTTCCTGAT	TCCAGCAGGC	CAAAGAGTCT	GCTGAATGTT	2280
GTGTTGCCGG	AGACCTGTAT	TTCTCAACAA	GGTAAGATGG	TATCCTAGCA	ACTGCGGATT	2340
TTAATACATT	TTCAGCAGAA	GTACTTAGTT	AATCTCTACC	TTTAGGGATC	GTTTCATCAT	2400
TTTTAGATGT	TATACTTGAA	ATACTGCATA	ACTTTTAGCT	TTCATGGGTT	CCTTTTTTTTC	2460
AGCCTTTAGG	AGACTGTTAA	GCAATTTGCT	GTCCAACCTT	TGTGTTGGTC	TTAAACTGCA	2520
ATAGTAGTTT	ACCTTGATTT	GAAGAAATAA	AGACCATTTT	TATATTAAAA	AATACTTTTG	2580
TCTGTCTTCA	TTTTGACTTG	TCTGATATCC	TTGCAGTGCC	CATTATGTCA	GTTCTGTCAG	2640
ATATTCAGAC	ATCAAACTT	AACGTGAGCT	CAGTGGAGTT	ACAGCTGCGG	TTTTGATGCT	2700
GTTATTATTT	CTGAACTAG	AAATGATGTT	GTCTTCATCT	GCTCATCAAA	CACTTCATGC	2760
AGAGTGTAAG	GCTAGTGAGA	AATGCATACA	TTTATTGATA	CTTTTTTAAA	GTCAACTTTT	2820
TATCAGATTT	TTTTTTCATT	TGGAAATATA	TTGTTTTCTA	GACTGCATAG	CTTCTGAATC	2880
TGAAATGCAG	TCTGATTGGC	ATGAAGAAGC	ACAGCACTCT	TCATCTTACT	TAAACTTCAT	2940
TTTGGAAATGA	AGGAAGTTAA	GCAAGGGCAC	AGGTCCATGA	AATAGAGACA	GTGCGCTCAG	3000
GAGAAAGTGA	ACCTGGATTT	CTTTGGCTAG	TGTTCTAAAT	CTGTAGTGAG	GAAAGTAACA	3060
CCCGATTCCCT	TGAAAGGGCT	CCAGCTTTAA	TGCTTCCAAA	TTGAAGGTGG	CAGGCAACTT	3120

FIG. 3a

Replacement Sheet

GGCCACTGGT	TATTTACTGC	ATTATGTCTC	AGTTTCGCAG	CTAACCTGGC	TTCTCCACTA	3180
TTGAGCATGG	ACTATAGCCT	GGCTTCAGAG	GCCAGGTGAA	GGTTGGGATG	GGTGGAAGGA	3240
GTGCTGGGCT	GTGGCTGGGG	GGACTGTGGG	GACTCCAAGC	TGAGCTTGGG	GTGGGCAGCA	3300
CAGGGAAAAG	TGTGGGTAAC	TATTTTAAAG	TACTGTGTTG	CAAACGTCTC	ATCTGCAAAT	3360
ACGTAGGGTG	TGTA CTCTCG	AAGATTAACA	GTGTGGGTTT	AGTAATATAT	GGATGAATTC	3420
ACAGTGGAAG	CATTCAAGGG	TAGATCATCT	AACGACACCA	GATCATCAAG	CTATGATTGG	3480
AAGCGGTATC	AGAAGAGCGA	GGAAGGTAAG	CAGTCTTCAT	ATGTTTTCCT	TCCACGTAAA	3540
GCAGTCTGGG	AAAGTAGCAC	CCCTTGAGCA	GAGACAAGGA	AATAATTCAG	GAGCATGTGC	3600
TAGGAGAACT	TTCTTGCTGA	ATTCTACTTG	CAAGAGCTTT	GATGCCTGGC	TTCTGGTGCC	3660
TTCTGCAGCA	CCTGCAAGGC	CCAGAGCCTG	TGGTGAGCTG	GAGGGAAAAG	TTCTGCTCAA	3720
GTCCAAGCTT	CAGCAGGTCA	TTGTCTTTGC	TTCTTCCCCC	AGCACTGTGC	AGCAGAGTGG	3780
AACTGATGTC	GAAGCCTCCT	GTCCACTACC	TGTTGCTGCA	GGCAGACTGC	TCTCAGAAAA	3840
AGAGAGCTAA	CTCTATGCCA	TAGTCTGAAG	GTAAAATGGG	TTTTAAAAAA	GAAAACACAA	3900
AGGCAAAACC	GGCTGCCCCA	TGAGAAGAAA	GCAGTGGTAA	ACATGGTAGA	AAAGGTGCAG	3960
AAGCCCCCAG	GCAGTGTGAC	AGGCCCCCTC	TGCCACCTAG	AGGCGGGAAC	AAGCTTCCCT	4020
GCCTAGGGCT	CTGCCCCGCA	AGTGCGTGTT	TCTTTGGTGG	GTTTGTGTTG	GCGTTTGGTT	4080
TTGAGATTTA	GACACAAGGG	AAGCCTGAAA	GGAGGTGTTG	GGCACTATTT	TGGTTTGTAA	4140
AGCCTGTACT	TCAAATATAT	ATTTTGTGAG	GGAGGTGAGC	GAATTGGCCA	ATTTAAAATA	4200
AAGTTGCAAG	AGATTGAAGG	CTGAGTAGTT	GAGAGGGTAA	CACGTTTAAT	GAGATCTTCT	4260
GAAACTACTG	CTTCTAAACA	CTTGTTTGAG	TGGTGAGACC	TTGGATAGGT	GAGTGCTCTT	4320
GTTACATGTC	TGATGCACTT	GCTTGCTCCT	TTCCATCCAC	ATCCATGCAT	TCCACATCCA	4380
CGCATTTGTC	ACTTATCCCA	TATCTGTCAT	ATCTGACATA	CCTGTCTCTT	CGTCACTTGG	4440
TCAGAAGAAA	CAGATGTGAT	AATCCCCAGC	CGCCCCAAGT	TTGAGAAGAT	GGCAGTTGCT	4500
TCTTTCCCTT	TTTCTTGCTA	AGTAAGGATT	TTCTCTGGC	TTTGACACCT	CACGAAATAG	4560
TCTTCTTGCT	TTACATTCTG	GGCATTATTT	CAAATATCTT	TGGAGTGCGC	TGCTCTCAAG	4620
TTTGTGTGCT	CCTACTCTTA	GAGTGAATGC	TCTTAGAGTG	AAAGAGAAGG	AAGAGAAGAT	4680
GTTGGCCGCA	GTTCTCTGAT	GAACACACCT	CTGAATAATG	GCCAAAGGTG	GGTGGGTTTC	4740
TCTGAGGAAC	GGGCAGCGTT	TGCCTCTGAA	AGCAAGGAGC	TCTGCGGAGT	TGCAGTTATT	4800
TTGCAACTGA	TGGTGGAAC	GGTGCTTAAA	GCAGATTCCC	TAGGTTCCCT	GCTACTTCTT	4860
TTCTTCTTGG	GCAGTCAGTT	TATTTCTGAC	AGACAAACAG	CCACCCCCAC	TGCAGGCTTA	4920
GAAAGTATGT	GGCTCTGCCT	GGGTGTGTTA	CAGCTCTGCC	CTGGTGAAAG	GGGATTAAAA	4980
CGGGCACCAT	TCATCCCCAA	CAGGATCCTC	ATTCTGAGT	CAAGCTGTAA	GGAACCTGGG	5040
CTCCAACCTC	AAAACATTAA	TTGGAGTACG	AATGTAATTA	AAACTGCATT	CTCGCATTC	5100
TAAGTCATTT	AGTCTGGACT	CTGCAGCATG	TAGGTCGGCA	GCTCCCACTT	TCTCAAAGAC	5160
CACTGATGGA	GGAGTAGTAA	AAATGGAGAC	CGATTGAGAA	CAACCAACGG	AGTGTGCGG	5220
AAGAAACTGA	TGGAAATAAT	GCATGAATTG	TGTGGTGGAC	ATTTTTTTTA	AATACATAAA	5280
CTACTTCAAA	TGAGGTCGGA	GAAGGTCAGT	GTTTTATTAG	CAGCCATAAA	ACCAGGTGAG	5340
CGAGTACCAT	TTTTCTCTAC	AAGAAAAACG	ATTCTGAGCT	CTGCGTAAGT	ATAAGTTCTC	5400
CATAGCGGCT	GAAGCTCCCC	CCTGGCTGCC	TGCCATCTCA	GCTGGAGTGC	AGTGCCATTT	5460
CCTTGGGGTT	TCTCTCACAG	CAGTAATGGG	ACAATACTTC	ACAAAAATTC	TTTCTTTTCC	5520
TGTCATGTGG	GATCCCTACT	GTGCCCTCCT	GGTTTACGT	TACCCCTGTA	CTGTTCCATT	5580
CAGCGGTTTG	GAAAGAGAAA	AAGAATTTGG	AAATAAAACA	TGTCTACGTT	ATCACCTCCT	5640
CCAGCATTTT	GGTTTTTAAT	TATGTCAATA	ACTGGCTTAG	ATTTGGAAAT	GAGAGGGGGT	5700
TGGGTGTATT	ACCGAGGAAC	AAAGGAAGGC	TTATATAAAC	TCAAGTCTTT	TATTTAGAGA	5760
ACTGGCAAGC	TGTCAAAAAC	AAAAAGGCCT	TACCACCAAA	TTAAGTGAAT	AGCCGCTATA	5820
GCCAGCAGGG	CCAGCACGAG	GGATGGTGCA	CTGCTGGCAC	TATGCCACGG	CCTGCTTGTG	5880
ACTCTGAGAG	CAACTGCTTT	GGAAATGACA	GCACTTGGTG	CAATTTCTTT	TGTTTCAGAA	5940
TGCGTAGAGC	GTGTGCTTGG	CGACAGTTTT	TCTAGTTAGG	CCACTTCTTT	TTTCTTCTC	6000
TCCTCATCTT	CCTAAGCATG	TCTCCATGCT	GGTAATCCCA	GTCAAGTGAA	CGTTCAAACA	6060
ATGAATCCAT	CACTGTAGGA	TTCTCGTGGT	GATCAAATCT	TTGTGTGAGG	TCTATAAAAT	6120
ATGGAAGCTT	ATTTATTTTT	CGTTCTTCCA	TATCAGTCTT	CTCTATGACA	ATTCACATCC	6180
ACCACAGCAA	ATTAAAGGTG	AAGGAGGCTG	GTGGGATGAA	GAGGGTCTTC	TAGCTTTACG	6240
TTCTTCCTTG	CAAGGCCACA	GGAAAATGCT	GAGAGCTGTA	GAATACAGCC	TGGGGTAAGA	6300
AGTTCAGTCT	CCTGCTGGGA	CAGCTAACCG	CATCTTATAA	CCCCTTCTGA	GACTCATCTT	6360

FIG. 3b

Replacement Sheet

AGGACCAAAT	AGGGTCTATC	TGGGGTTTTT	GTTCTGCTG	TTCCTCCTGG	AAGGCTATCT	6420
CACTATTTCA	CTGCTCCAC	GGTTACAAAC	CAAAGATACA	GCCTGAATTT	TTTCTAGGCC	6480
ACATTACATA	AATTTGACCT	GGTACCAATA	TTGTTCTCTA	TATAGTTATT	TCCTTCCCCA	6540
CTGTGTTTAA	CCCCTTAAGG	CATTGAGAAC	AACTAGAATC	ATAGAATGGT	TTGGATTGGA	6600
AGGGGCCTTA	AACATCATCC	ATTTCCAACC	CTCTGCCATG	GGCTGCTTGC	CACCCACTGG	6660
CTCAGGCTGC	CCAGGGCCCC	ATCCAGCCTG	GCCTTGAGCA	CCTCCAGGGA	TGGGGCACCC	6720
ACAGCTTCTC	TGGGCAGCCT	GTGCCAACAC	CTCACCCTC	TCTGGGTAAA	GAATTCTCTT	6780
TTAACATCTA	ATCTAAATCT	CTTCTCTTTT	AGTTTAAAGC	CATTCTCTCT	TTTCCCGTTG	6840
CTATCTGTCC	AAGAAATGTG	TATTGGTCTC	CCTCCTGCTT	ATAAGCAGGA	AGTACTGGAA	6900
GGCTGCACTG	AGGTCTCCCC	ACAGCCTTCT	CTTCTCCAGG	CTGAACAAGC	CCAGCTCCTT	6960
CAGCCTGTCT	TCGTAGGAGA	TCATCTTAGT	GGCCCTCCTC	TGGACCCATT	CCAACAGTTC	7020
CACGGCTTTC	TTGTGGAGCC	CCAGGTCTGG	ATGCAGTACT	TCAGATGGGG	CCTTACAAAG	7080
GCAGAGCAGA	TGGGGACAAAT	CGCTTACCCC	TCCCTGCTGG	CTGCCCCGTG	TTTGATGCAG	7140
CCCAGGGTAC	TGTTGGCCTT	TCAGGCTCCC	AGACCCCTTG	CTGATTTGTG	TCAAGCTTTT	7200
CATCCACCAG	AACCCACGCT	TCCTGGTTAA	TACTTCTGCC	CTCACTTCTG	TAAGCTTGTT	7260
TCAGGAGACT	TCCATTCTTT	AGGACAGACT	GTGTTACACC	TACCTGCCCT	ATTCTTGCAT	7320
ATATACATTT	CAGTTCATGT	TTCTGTAAAC	AGGACAGAAAT	ATGTATTCCCT	CTAACAAAAA	7380
TACATGCAGA	ATTCTTAGTG	CCATCTCAGT	AGGGTTTTCA	TGGCAGTATT	AGCACATAGT	7440
CAATTTGCTG	CAAGTACCTT	CCAAGCTGCG	GCCTCCCATA	AATCCTGTAT	TTGGGATCAG	7500
TTACCTTTTG	GGGTAAGCTT	TTGTATCTGC	AGAGACCCTG	GGGGTTCTGA	TGTGCTTCAG	7560
CTCTGCTCTG	TTCTGACTGC	ACCATTTTCT	AGATCACCCA	GTTGTTCCCTG	TACAACTTCC	7620
TTGTCTCTCA	TCCTTTCCCA	GCTTGTATCT	TTGACAAATA	CAGGCCTATT	TTTGTGTTTG	7680
CTTCAGCAGC	CATTTAATTC	TTCAGTGTCA	TCTTGTCTG	TTGATGCCAC	TGGAACAGGA	7740
TTTTTCAGCAG	TCTTGCAAAG	AACATCTAGC	TGAAAACTTT	CTGCCATTCA	ATATTCTTAC	7800
CAGTTCTTCT	TGTTTGAGGT	GAGCCATAAA	TTACTAGAAC	TTCGTCACTG	ACAAGTTTAT	7860
GCATTTTATT	ACTTCTATTA	TGTACTTACT	TTGACATAAC	ACAGACACGC	ACATATTTTG	7920
CTGGGATTTT	CACAGTGTCT	CTGTGTCCTT	CACATGGTTT	TACTGTCTATA	CTTCCGTTAT	7980
AACCTTGGCA	ATCTGCCCAG	CTGCCCATCA	CAAGAAAAGA	GATTCCTTTT	TTATTACTTC	8040
TCTTCAGCCA	ATAAACAAAA	TGTGAGAAGC	CCAAACAAGA	ACTTGTGGGG	CAGGCTGCCA	8100
TCAAGGGAGA	GACAGCTGAA	GGGTTGTGTA	GCTCAATAGA	ATTAAGAAAT	AATAAAGCTG	8160
TGTGAGCAG	TTTTGCCTGA	TTTATACAGG	CACGCCCCAA	GCCAGAGAGG	CTGTCTGCCA	8220
AGGCCACCTT	GCAGTCCCTG	GTTTGTAAAG	TAAGTCATAG	GTAACCTTTT	TGGTGAATTG	8280
CGTGGAGAAT	CATGATGGCA	GTTCTTGCTG	TTTACTATGG	TAAGATGCTA	AAATAGGAGA	8340
CAGCAAAGTA	ACACTTGCTG	CTGTAGGTGC	TCTGCTATCC	AGACAGCGAT	GGCACTCGCA	8400
CACCAAGATG	AGGGATGCTC	CCAGCTGACG	GATGCTGGGG	CAGTAACAGT	GGGTCCCATG	8460
CTGCCTGCTC	ATTAGCATCA	CCTCAGCCCT	CACCAGCCCA	TCAGAAGGAT	CATCCCAAGC	8520
TGAGGAAAGT	TGCTCATCTT	CTTCACATCA	TCAAACCTTT	GGCCTGACTG	ATGCCTCCCG	8580
GATGCTTAAA	TGTGGTCACT	GACATCTTTA	TTTTTCTATG	ATTTCAAGTC	AGAACCTCCG	8640
GATCAGGAGG	GAACACATAG	TGGGAATGTA	CCCTCAGCTC	CAAGGCCAGA	TCTTCCTTCA	8700
ATGATCATGC	ATGCTACTTA	GGAAGGTGTG	TGTGTGTGAA	TGTAGAATTG	CCTTTGTTAT	8760
TTTTTCTTCC	TGCTGTCAGG	AACATTTTGA	ATACCAGAGA	AAAAGAAAAG	TGCTCTTCTT	8820
GGCATGGGAG	GAGTTGTCAC	ACTTGCAAAA	TAAAGGATGC	AGTCCCAAAT	GTTTCTAATC	8880
TCAGGGTCTG	AAGGAGGATC	AGAACTGTG	TATACAATTT	CAGGCTTCTC	TGAATGCAGC	8940
TTTTTGAAAGC	TGTTCCCTGGC	CGAGGCAGTA	CTAGTCAGAA	CCCTCGGAAA	CAGGAACAAA	9000
TGTCTTCAAG	GTGCAGCAGG	AGGAAACACC	TTGCCCATCA	TGAAAGTGAA	TAACCACTGC	9060
CGCTGAAGGA	ATCCAGCTCC	TGTTTGAGCA	GGTGCTGCAC	ACTCCACAC	TGAAACAACA	9120
GTTTCAATTTT	ATAGGACTTC	CAGGAAGGAT	CTTCTTCTTA	AGCTTCTTAA	TTATGGTACA	9180
TCTCCAGTTG	GCAGATGACT	ATGACTACTG	ACAGGAGAAT	GAGGAACTAG	CTGGGAATAT	9240
TTCTGTTTGA	CCACCATGGA	GTCACCCATT	TCTTTACTGG	TATTTGGAAA	TAATAATTCT	9300
GAATTGCAAA	GCAGGAGTTA	GCGAAGATCT	TCATTTCTTC	CATGTTGGTG	ACAGCACAGT	9360
TCTGGCTATG	AAAGTCTGCT	TACAAGGAAG	AGGATAAAAA	TCATAGGGAT	AATAAATCTA	9420
AGTTTGAAGA	CAATGAGGTT	TTAGCTGCAT	TTGACATGAA	GAAATTGAGA	CCTCTACTGG	9480
ATAGCTATGG	TATTTACGTG	TCTTTTTGCT	TAGTTACTTA	TTGACCCAG	CTGAGGTCAA	9540
GTATGAACTC	AGGTCTCTCG	GGCTACTGGC	ATGGATTGAT	TACATACAAC	TGTAATTTTA	9600

FIG. 3c

Replacement Sheet

GCAGTGATTT	AGGGTTTATG	AGTACTTTTG	CAGTAAATCA	TAGGGTTAGT	AATGTTAATC	9660
TCAGGGAAAA	AAAAAAAAAAG	CCAACCCTGA	CAGACATCCC	AGCTCAGGTG	GAAATCAAGG	9720
ATCACAGCTC	AGTGCGGTCC	CAGAGAACAC	AGGGACTCTT	CTCTTAGGAC	CTTTATGTAC	9780
AGGGCCTCAA	GATAACTGAT	GTTAGTCAGA	AGACTTTCCA	TTCTGGCCAC	AGTTCAGCTG	9840
AGGCAATCCT	GGAATTTTCT	CTCCGCTGCA	CAGTTCCAGT	CATCCCAGTT	TGTACAGTTC	9900
TGGCACTTTT	TGGGTCAGGC	CGTGATCCAA	GGAGCAGAAG	TTCCAGCTAT	GGTCAGGGAG	9960
TGCCTGACCG	TCCCAACTCA	CTGCACTCAA	ACAAAGGCGA	AACCACAAGA	GTGGCTTTTG	10020
TTGAAATTGC	AGTGTGGCCC	AGAGGGGCTG	CACCACTACT	GGATTGACCA	CGAGGCAACA	10080
TTAATCCTCA	GCAAGTGCAA	TTTGCAGCCA	TTAAATTGAA	CTAACTGATA	CTACAATGCA	10140
ATCAGTATCA	ACAAGTGGTT	TGGCTTGGA	GATGGAGTCT	AGGGGCTCTA	CAGGAGTAGC	10200
TACTCTCTAA	TGGAGTTGCA	TTTTGAAGCA	GGACACTGTG	AAAAGCTGGC	CTCCTAAAGA	10260
GGCTGCTAAA	CATTAGGGTC	AATTTTCCAG	TGCACCTTCT	GAAGTGTCTG	CAGTTCCTCA	10320
TGCAAAGCTG	CCCAAACATA	GCACTTCCAA	TTGAATACAA	TTATATGCAG	GCGTACTGCT	10380
TCTTGCCAGC	ACTGTCCTTC	TCAAATGAAC	TCAACAAACA	ATTTCAAAGT	CTAGTAGAAA	10440
GTAACAAGCT	TTGAATGTCA	TTAAAAAGTA	TATCTGCTTT	CAGTAGTTCA	GCTTATTTAT	10500
GCCCACTAGA	AACATCTTGT	ACAAGCTGAA	CACTGGGGCT	CCAGATTAGT	GGTAAAACCT	10560
ACTTTATACA	ATCATAGAAT	CATAGAATGG	CCTGGGTTGG	AAGGGACCCC	AAGGATCATG	10620
AAGATCCAAC	ACCCCGCCCA	CAGGCAGGGC	CACCAACCTC	CAGATCTGGT	ACTAGACCAG	10680
GCAGCCCAGG	GCTCCATCCA	ACCTGGCCAT	GAACACCTCC	AGGGATGGAG	CATCCACAAC	10740
CTCTCTGGGC	AGCCTGTGCC	AGCACCTCAC	CACCTCTCTC	GTGAAGAACT	TTTCCCTGAC	10800
ATCCAATCTA	AGCCTTCCCT	CCTTGAGGTT	AGATCCACTC	CCCCTTGTGC	TATCACTGTC	10860
TACTCTTGTA	AAAAGTTGAT	TCTCCTCCTT	TTTGGAAGGT	TGCAATGAGG	TCTCCTTGCA	10920
GCCTTCTTCT	CTTCTGCAGG	ATGAACAAGC	CCAGCTCCCT	CAGCCTGTCT	TTATAGGAGA	10980
GGTGCTCCAG	CCCTCTGATC	ATCTTTGTGG	CCCTCCTCTG	GACCCGCTCC	AAGAGCTCCA	11040
CATCTTTTCT	GTACTGGGGG	CCCCAGGCCCT	GAATGCAGTA	CTCCAGATGG	GGCCTCAAAA	11100
GAGCAGAGTA	AAGAGGGACA	ATCACCTTCC	TCACCCTGCT	GGCCAGCCCT	CTTCTGATGG	11160
AGCCCTGGAT	ACAAGTGGCT	TTCTGAGCTG	CAACTTCTCC	TTATCAGTTC	CACTATTAAA	11220
ACAGGAACAA	TACAACAGGT	GCTGATGGCC	AGTGCAGAGT	TTTTCACACT	TCTTCATTTT	11280
GGTAGATCTT	AGATGAGGAA	CGTTGAAGTT	GTGCTTCTGC	GTGTGCTTCT	TCCTCCTCAA	11340
ATACTCCTGC	CTGATACCTC	ACCCACCTG	CCACTGAATG	GCTCCATGGC	CCCCTGCAGC	11400
CAGGGCCCTG	ATGAACCCGG	CACTGCTTCA	GATGCTGTTT	AATAGCACAG	TATGACCAAG	11460
TTGCACCTAT	GAATACACAA	ACAATGTGTT	GCATCCTTCA	GCACTTGAGA	AGAAGAGCCA	11520
AATTTGCATT	GTCAGGAAAT	GGTTTAGTAA	TTCTGCCAAT	TAAAACTTGT	TTATCTACCA	11580
TGGCTGTTTT	TATGGCTGTT	AGTAGTGGTA	CACTGATGAT	GAACAATGGC	TATGCAGTAA	11640
AATCAAGACT	GATGATATTG	CAACAGACTA	TAAAATTCTT	CTGTGGCTTA	GCCAATGTGG	11700
TACTTCCCAC	ATTGTATAAG	AAATTTGGCA	AGTTTAGAGC	AATGTTTGAA	GTGTTGGGAA	11760
ATTTCTGTAT	ACTCAAGAGG	GCGTTTTTGA	CAACTGTAGA	ACAGAGGAAT	CAAAAGGGGG	11820
TGGGAGGAAG	TTAAAAGAAG	AGGCAGGTGC	AAGAGAGCTT	GCAGTCCCGC	TGTGTGTACG	11880
ACACTGGCAA	CATGAGGTCT	TTGCTAATCT	TGGTGCTTTG	CTTCCTGCCC	CTGGCTGCCT	11940
TAGGGTGCGA	TCTGCCTCAG	ACCCACAGCC	TGGGCAGCAG	GAGGACCCTG	ATGCTGCTGG	12000
CTCAGATGAG	GAGAATCAGC	CTGTTTAGCT	GCCTGAAGGA	TAGGCACGAT	TTTGGCTTTT	12060
CTCAAGAGGA	GTTTGGCAAC	CAGTTTCAGA	AGGCTGAGAC	CATCCCTGTG	CTGCACGAGA	12120
TGATCCAGCA	GATCTTTAAC	CTGTTTAGCA	CCAAGGATAG	CAGCGCTGCT	TGGGATGAGA	12180
CCCTGCTGGA	TAAGTTTTAC	ACCGAGCTGT	ACCAGCAGCT	GAACGATCTG	GAGGCTTGCG	12240
TGATCCAGGG	CGTGGGCGTG	ACCGAGACCC	CTCTGATGAA	GGAGGATAGC	ATCCTGGCTG	12300
TGAGGAAGTA	CTTTCAGAGG	ATCACCTGT	ACCTGAAGGA	GAAGAAGTAC	AGCCCTTGCG	12360
CTTGGAAGT	CGTGAGGGCT	GAGATCATGA	GGAGCTTTAG	CCTGAGCACC	AACCTGCAAG	12420
AGAGCTTGAG	GTCTAAGGAG	TAAAAAGTCT	AGAGTCGGGG	CGGCCGGCCG	CTTCGAGCAG	12480
ACATGATAAG	ATACATTGAT	GAGTTTGGAC	AAACCACAAC	TAGAATGCAG	TGAAAAAAT	12540
GCTTTATTTG	TGAAATTTGT	GATGCTATTG	CTTTATTTGT	AACCATTATA	AGCTGCAATA	12600
AACAAGTTAA	CAACAACAAT	TGCATTTCATT	TTATGTTTCA	GGTTCAGGGG	GAGGTGTGGG	12660
AGGTTTTTTA	AAGCAAGTAA	AACCTCTACA	AATGTGGTAA	AATCGATAAG	GATCCGTCGA	12720
GCGGCCGC						12728

FIG. 3d

SEQ ID NO: 67

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TGCCGCCTTC TTTGATATTC ACTCTGTTGT ATTTTCATCTC TTCTTGCCGA TGAAAGGATA 60
TAACAGTCTG TATAACAGTC TGTGAGGAAA TACTTGGTAT TTCTTCTGAT CAGTGTTTTT 120
ATAAGTAATG TTGAATATTG GATAAGGCTG TGTGTCCTTT GTCTTGGGAG ACAAAGCCCA 180
CAGCAGGTGG TGGTTGGGGT GGTGGCAGCT CAGTGACAGG AGAGGTTTTT TTGCCTGTTT 240
TTTTTTTTTT TTTTTTTTTT AAGTAAGGTG TTCTTTTTTC TTAGTAAATT TTCTACTGGA 300
CTGTATGTTT TGACAGGTCA GAAACATTTT TTCAAAAAGAA GAACCTTTTG GAAACTGTAC 360
AGCCCTTTTC TTTCATTCCC TTTTTGCTTT CTGTGCCAAT GCCTTTGGTT CTGATTGCAT 420
TATGGAAGAAC GTTGATCGGA ACTTGAGGTT TTTATTTTATA GTGTGGCTTG AAAGCTTGGA 480
TAGCTGTTGT TACACGAGAT ACCTTATTAA GTTTAGGCCA GCTTGATGCT TTATTTTTTC 540
CCTTTGAAGT AGTGAGCGTT CTCTGGTTTT TTTCCCTTGA AACTGGTGAG GCTTAGATTT 600
TTCTAATGGG ATTTTTTACC TGATGATCTA GTTGCCATACC CAAATGCTTG TAAATGTTTT 660
CCTAGTTAAC ATGTTGATAA CTTCCGATTT ACATGTTGTA TACTACTGTC ATCTGTGTTT 720
CTAGTAAAAA TATATGGCAT TTATAGAAAT ACGTAATTCC TGATTTCCCT TTTTTTTATC 780
TCTATGCTCT GTGTGTACAG GTCAAACAGA CTTCACTCCT ATTTTTATTT ATAGAATTTT 840
ATATGCAGTC TGTCGTTGGT TCTTGTGTTG TAAGGATACA GCCTTAAATT TCCTAGAGCG 900
ATGCTCAGTA AGGCGGGTTG TCACATGGGT TCAAATGTAA AACGGGCACG TTTGGCTGCT 960
GCCTTCCCGA GATCCAGGAC ACTAACTGC TTCTGCACTG AGGTATAAAT CGCTTCAGAT 1020
CCCAGGGAAG TGCAGATCCA CGTGCATATT CTTAAAGAAG AATGAATACT TTCTAAAAA 1080
TTTTGGCATA GGAAGCAAGC TGCATGGATT TGTTTGGGAC TTAAATTATT TTGGTAACGG 1140
AGTGCATAGG TTTTAAACAC AGTTGCAGCA TGCTAACGAG TCACAGCGTT TATGCAGAAG 1200
TGATGCCTGG ATGCCTGTTG CAGCTGTTTA CGGCACTGCC TTGCAGTGAG CATTGCAGAT 1260
AGGGGTGGGG TGCTTTGTGT CGTGTTCCCA CACGCTGCCA CACAGCCACC TCCCGGAACA 1320
CATCTCACCT GCTGGGTACT TTTCAAACCA TCTTAGCAGT AGTAGATGAG TTACTATGAA 1380
ACAGAGAAGT TCCTCAGTTG GATATTCTCA TGGGATGTCT TTTTCCCAT GTTGGGCAAA 1440
GTATGATAAA GCATCTCTAT TTGTAAATTA TGCACCTGTT AGTTCCTGAA TCCTTTCTAT 1500
AGCACCACTT ATTGCAGCAG GTGTAGGCTC TGGTGTGGCC TGTGTCTGTG CTTCAATCTT 1560
TTAAAGCTTC TTTGAAATA CACTGACTTG ATTGAAGTCT CTTGAAGATA GTAAACAGTA 1620
CTTACCTTTG ATCCCAATGA AATCGAGCAT TTCAGTTGTA AAAGAATTCC GCCTATTCTA 1680
ACCATGTAAT GTAATTTTAC ACCCCCAGTG CTGACACTTT GGAATATATT CAAAGTATAG 1740
ACTTTGGCCT CACCTCTTG TGTACTGTAT TTTGTAATAG AAAATATTTT AAAGTGTGCA 1800
TATGATTATT ACATTATGAA AGAGACATTC TGCTGATCTT CAAATGTAAG AAAATGAGGA 1860
GTGCGTGTGC TTTTATAAAT ACAAGTGATT GCAAATAGT GCAGGTGTCC TTAAAAA 1920
AAAAAAGTGC TAATATAAAG AGGACCAGGT GTTTTACAAG TGAAATACAT TCCTATTTGG 1980
TAAACAGTTA CATTTTATG AAGATTACCA GCGCTGCTGA CTTTCTAAAC ATAAGGCTGT 2040
ATTGTCTTCC TGTACCATG CATTTCTCA TTCCCAATTT GCACAAGGAT GTCTGGGTAA 2100
ACTATTCAAG AAATGGCTTT GAAATACAGC ATGGGAGCTT GTCTGAGTTG GAATGCAGAG 2160
TTGCACTGCA AAATGTCAGG AAATGGATGT CTCTCAGAAT GCCCAACTCC AAAGGATTTT 2220
ATATGTGTAT ATAGTAAGCA GTTTCCTGAT TCCAGCAGGC CAAAGAGTCT GCTGAATGTT 2280
GTGTTGCCGG AGACCTGTAT TTCTCAACAA GGTAAGATGG TATCCTAGCA ACTGCGGATT 2340
TTAATACATT TTCAGCAGAA GTACTTAGTT AATCTCTACC TTTAGGGATC GTTTCATCAT 2400
TTTTAGATGT TATACTTGAA ATACTGCATA ACTTTTAGCT TTCATGGGTT CCTTTTTTTC 2460
AGCCTTTAGG AGACTGTAA GCAATTTGCT GTCCAACCTT TGTGTTGGTC TTAAACTGCA 2520
ATAGTAGTTT ACCTTGATTT GAAGAAATAA AGACCATTTT TATATTAAAA AATACTTTTG 2580
TCTGTCTTCA TTTTGACTTG TCTGATATCC TTGCAGTGCC CATTATGTCA GTTCTGTCAG 2640
ATATTCAGAC ATCAAACTT AACGTGAGCT CAGTGAGGTT ACAGCTGCGG TTTTGATGCT 2700
GTTATTATTT CTGAAACTAG AAATGATGTT GTCTTCATCT GCTCATCAA CACTTCATGC 2760
AGAGTGTAAG GCTAGTGAGA AATGCATACA TTTATTGATA CTTTTTTTAA GTCAACTTTT 2820
TATCAGATTT TTTTTTCATT TGGAAATATA TTGTTTTCTA GACTGCATAG CTTCTGAATC 2880
TGAAATGCAG TCTGATTGGC ATGAAGAAGC ACAGCACTCT TCATCTTACT TAAACTTCAT 2940
TTTGGAATGA AGGAAGTTAA GCAAGGGCAC AGGTCCATGA AATAGAGACA GTGCGCTCAG 3000
GAGAAAGTGA ACCTGGATTT CTTTGGCTAG TGTTCTAAAT CTGTAGTGAG GAAAGTAACA 3060

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FIG. 5a

Replacement Sheet

CCCGATTTCCT	TGAAAGGGCT	CCAGCTTTAA	TGCTTCCAAA	TTGAAGGTGG	CAGGCAACTT	3120
GGCCACTGGT	TATTTACTGC	ATTATGTCTC	AGTTTCGCAG	CTAACCTGGC	TTCTCCACTA	3180
TTGAGCATGG	ACTATAGCCT	GGCTTCAGAG	GCCAGGTGAA	GGTTGGGATG	GGTGGAAGGA	3240
GTGCTGGGCT	GTGGCTGGGG	GGACTGTGGG	GACTCCAAGC	TGAGCTTGGG	GTGGGCAGCA	3300
CAGGGAAAAG	TGTGGGTAAC	TATTTTTAAG	TACTGTGTTG	CAAACGTCTC	ATCTGCAAAAT	3360
ACGTAGGGTG	TGTACTCTCG	AAGATTAACA	GTGTGGGTTC	AGTAATATAT	GGATGAATTC	3420
ACAGTGGAAG	CATTCAAGGG	TAGATCATCT	AACGACACCA	GATCATCAAG	CTATGATTGG	3480
AAGCGGTATC	AGAAGAGCGA	GGAAGGTAAG	CAGTCTTCAT	ATGTTTTCCC	TCCACGTAAA	3540
GCAGTCTGGG	AAAGTAGCAC	CCCTTGAGCA	GAGACAAGGA	AATAATTGAG	GAGCATGTGC	3600
TAGGAGAACT	TTCTTGCTGA	ATTCTACTTG	CAAGAGCTTT	GATGCCTGGC	TTCTGGTGCC	3660
TTCTGCAGCA	CCTGCAAGGC	CCAGAGCCTG	TGGTGAGCTG	GAGGGAAAGA	TTCTGCTCAA	3720
GTCCAAGCTT	CAGCAGGTCA	TTGTCTTTGC	TTCTTCCCCC	AGCACTGTGC	AGCAGAGTGG	3780
AACTGATGTC	GAAGCCTCCT	GTCCACTACC	TGTTGCTGCA	GGCAGACTGC	TCTCAGAAAA	3840
AGAGAGCTAA	CTCTATGCCA	TAGTCTGAAG	GTAAATGGG	TTTTAAAAAA	GAAAACACAA	3900
AGGCAAAACC	GGCTGCCCCA	TGAGAAGAAA	GCAGTGGTAA	ACATGGTAGA	AAAGGTGCAG	3960
AAGCCCCCAG	GCAGTGTGAC	AGGCCCCCTC	TGCCACCTAG	AGGCGGGAAC	AAGCTTCCCT	4020
GCCTAGGGCT	CTGCCCCGCA	AGTGCCTGTT	TCTTTGGTGG	GTTTTGTTTG	GCGTTTGGTT	4080
TTGAGATTTA	GACACAAGGG	AAGCCTGAAA	GGAGGTGTTG	GGCACTATTT	TGGTTTGTAA	4140
AGCCTGTACT	TCAAAATATAT	ATTTTGTGAG	GGAGTGTAGC	GAATTGGCCA	ATTTAAATAA	4200
AAGTTGCAAG	AGATTGAAGG	CTGAGTAGTT	GAGAGGGTAA	CACGTTTAAT	GAGATCTTCT	4260
GAAACTACTG	CTTCTAAACA	CTTGTTTGAG	TGGTGAGACC	TTGGATAGGT	GAGTGCCTCT	4320
GTTACATGTC	TGATGCACTT	GCTTGTCTCT	TTCCATCCAC	ATCCATGCAT	TCCACATCCA	4380
CGCATTTGTC	ACTTATCCCA	TATCTGTCTAT	ATCTGACATA	CCTGTCTCTT	CGTCACTTGG	4440
TCAGAAGAAA	CAGATGTGAT	AATCCCCAGC	CGCCCCAAGT	TTGAGAAGAT	GGCAGTTGCT	4500
TCTTTCCCTT	TTTCTTGCTA	AGTAAGGATT	TTCTCCTGGC	TTTGACACCT	CACGAAATAG	4560
TCTTCTGCTG	TTACATTCTG	GGCATTATTT	CAAATATCTT	TGGAGTGCGC	TGCTCTCAAG	4620
TTTGTGTCTT	CCTACTCTTA	GAGTGAATGC	TCTTAGAGTG	AAAGAGAAGG	AAGAGAAGAT	4680
GTTGGCCGCA	GTTCTCTGAT	GAACACACCT	CTGAATAATG	GCCAAAGGTG	GGTGGGTTTC	4740
TCTGAGGAAC	GGGCAGCGTT	TGCCTCTGAA	AGCAAGGAGC	TCTGCGGAGT	TGCAGTTATT	4800
TTGCAACTGA	TGGTGGAAC	GGTGCTTAAA	GCAGATTCCC	TAGGTTCCCT	GCTACTTCTT	4860
TTCCCTTCTTG	GCAGTCAGTT	TATTTCTGAC	AGACAAACAG	CCACCCCCAC	TGCAGGCTTA	4920
GAAAGTATGT	GGCTCTGCCT	GGGTGTGTTA	CAGCTCTGCC	CTGGTGAAAG	GGGATTAAAA	4980
CGGGACCACT	TCATCCCAAA	CAGGATCCTC	ATTCATGGAT	CAAGCTGTAA	GGAACCTGGG	5040
CTCCAACCTC	AAAACATTAA	TTGGAGTACG	AATGTAATTA	AAACTGCATT	CTCGCATTC	5100
TAAGTCATTT	AGTCTGGACT	CTGCAGCATG	TAGGTCGGCA	GCTCCCCTT	TCTCAAAGAC	5160
CACTGATGGA	GGAGTAGTAA	AAATGGAGAC	CGATTCAGAA	CAACCAACGG	AGTGTGCGG	5220
AAGAAACTGA	TGGAAATAAT	GCATGAATTG	TGTGGTGGAC	ATTTTTTTT	AAATACATAA	5280
CTACTTCAAA	TGAGGTCGGA	GAAGGTCAGT	GTTTTATTAG	CAGCCATAAA	ACCAGGTGAG	5340
CGAGTACCAT	TTTTCTCTAC	AAGAAAAACG	ATTCTGAGCT	CTGCGTAAGT	ATAAGTTCTC	5400
CATAGCGGCT	GAAGCTCCCC	CCTGGCTGCC	TGCCATCTCA	GCTGGAGTGC	AGTGCCATTT	5460
CCTTGGGGTT	TCTCTCACAG	CAGTAATGGG	ACAATACTTC	ACAAAAATTC	TTTCTTTTCC	5520
TGTCATGTGG	GATCCCTACT	GTGCCCTCCT	GGTTTTACGT	TACCCCTGA	CTGTTCCATT	5580
CAGCGGTTTG	GAAAGAGAAA	AAGAATTTGG	AAATAAAACA	TGTCTACGTT	ATCACCTCCT	5640
CCAGCATTTT	GGTTTTTAAT	TATGTCAATA	ACTGGCTTAG	ATTTGGAAAT	GAGAGGGGGT	5700
TGGGTGTATT	ACCGAGGAAC	AAAGGAAGGC	TTATATAAAC	TCAAGTCTTT	TATTTAGAGA	5760
ACTGGCAAGC	TGTCAAAAAC	AAAAAGGCCT	TACCACCAAA	TTAAGTGAAT	AGCCGCTATA	5820
GCCAGCAGGG	CCAGCACGAG	GGATGGTGCA	CTGCTGGCAC	TATGCCACGG	CCTGCTTGTC	5880
ACTCTGAGAG	CAACTGCTTT	GGAAATGACA	GCACTTGGTG	CAATTTCTTT	TGTTTCAGAA	5940
TGCGTAGAGC	GTGTGCTTGG	CGACAGTTTT	TCTAGTTAGG	CCACTTCTTT	TTTCCTTCTC	6000
TCCTCATTTCT	CCTAAGCATG	TCTCCATGCT	GGTAATCCCA	GTCAAGTGAA	CGTTCAAACA	6060
ATGAATCCAT	CACTGTAGGA	TTCTCGTGGT	GATCAAATCT	TTGTGTGAGG	TCTATAAAAT	6120
ATGGAAGCTT	ATTTATTTTT	CGTTCTTCCA	TATCAGTCTT	CTCTATGACA	ATTCACATCC	6180
ACCACAGCAA	ATTAAAGGTG	AAGGAGGCTG	GTGGGATGAA	GAGGGTCTTC	TAGCTTTACG	6240
TTCTTCCTTG	CAAGGCCACA	GGAAAATGCT	GAGAGCTGTA	GAATACAGCC	TGGGGTAAGA	6300

FIG. 5b

Replacement Sheet

AGTTCAGTCT	CCTGCTGGGA	CAGCTAACCG	CATCTTATAA	CCCCTTCTGA	GACTCATCTT	6360
AGGACCAAAT	AGGGTCTATC	TGGGGTTTTT	GTTCTGCTG	TTCCTCCTGG	AAGGCTATCT	6420
CACTATTTCA	CTGCTCCAC	GGTTACAAAC	CAAAGATACA	GCCTGAATTT	TTTCTAGGCC	6480
ACATTACATA	AATTTGACCT	GGTACCAATA	TTGTTCTCTA	TATAGTTATT	TCCTTCCCCA	6540
CTGTGTTTAA	CCCCTTAAGG	CATTACAGAA	AACTAGAATC	ATAGAATGGT	TTGGATTGGA	6600
AGGGGCCTTA	AACATCATCC	ATTTCCAACC	CTCTGCCATG	GGCTGCTTGC	CACCCACTGG	6660
CTCAGGCTGC	CCAGGGCCCC	ATCCAGCCTG	GCCTTGAGCA	CCTCCAGGGA	TGGGGCACCC	6720
ACAGCTTCTC	TGGGCAGCCT	GTGCCAACAC	CTCACCCTC	TCTGGGTAAA	GAATTCTCTT	6780
TTAACATCTA	ATCTAAATCT	CTTCTCTTTT	AGTTTAAAGC	CATTCCTCTT	TTTCCCGTTG	6840
CTATCTGTCC	AAGAAATGTG	TATTGGTCTC	CCTCCTGCTT	ATAAGCAGGA	AGTACTGGAA	6900
GGCTGCAGTG	AGGTCTCCCC	ACAGCCTTCT	CTTCTCCAGG	CTGAACAAGC	CCAGCTCCTT	6960
CAGCCTGTCT	TCGTAGGAGA	TCATCTTAGT	GGCCCTCCTC	TGGACCCATT	CCAACAGTTC	7020
CACGGCTTTC	TTGTGGAGCC	CCAGGTCTGG	ATGCAGTACT	TCAGATGGGG	CCTTACAAAG	7080
GCAGAGCAGA	TGGGGACAAT	CGCTTACCCC	TCCCTGCTGG	CTGCCCCTGT	TTTGATGCAG	7140
CCCAGGGTAC	TGTTGGCCTT	TCAGGCTCCC	AGACCCCTTG	CTGATTTGTG	TCAAGCTTTT	7200
CATCCACCAG	AACCCACGCT	TCCTGGTTAA	TACTTCTGCC	CTCACTTCTG	TAAAGCTTGT	7260
TCAGGAGACT	TCCATTCTTT	AGGACAGACT	GTGTTACACC	TACCTGCCCT	ATTCTTGCAT	7320
ATATACATTT	CAGTTCATGT	TTCTGTAAAC	AGGACAGAAT	ATGTATTCCCT	CTAACAAAAA	7380
TACATGCAGA	ATTCCTAGTG	CCATCTCAGT	AGGGTTTCA	TGGCAGTATT	AGCACATAGT	7440
CAATTTGCTG	CAAGTACCTT	CCAAGCTGCG	GCCTCCCAT	AATCCTGTAT	TTGGGATCAG	7500
TTACCTTTTG	GGGTAAGCTT	TTGTATCTGC	AGAGACCCTG	GGGGTTCTGA	TGTGCTTCAG	7560
CTCTGCTCTG	TTCTGACTGC	ACCATTTTCT	AGATCACCCA	GTTGTTCTCTG	TACAACTTCC	7620
TTGTCTCTCA	TCCTTTCCCA	GCTTGTATCT	TTGACAAATA	CAGGCCTATT	TTTGTGTTTG	7680
CTTCAGCAGC	CATTTAATTC	TTCAGTGTCA	TCTTGTCTCTG	TTGATGCCAC	TGGAACAGGA	7740
TTTTTCAGCAG	TCTTGCAAAG	AACATCTAGC	TGAAAACCTT	CTGCCATTCA	ATATTCTTAC	7800
CAGTTCTTCT	TGTTTGAGGT	GAGCCATAAA	TTACTAGAAC	TTCGTCACTG	ACAAGTTTAT	7860
GCATTTTATT	ACTTCTATTA	TGTACTTACT	TTGACATAAC	ACAGACACGC	ACATATTTTG	7920
CTGGGATTTT	CACAGTGTCT	CTGTGTCTCT	CACATGGTTT	TACTGTCATA	CTTCCGTTAT	7980
AACCTTGGCA	ATCTGCCCAG	CTGCCCATCA	CAAGAAAAGA	GATTCCTTTT	TTATTACTTC	8040
TCTTCAGCCA	ATAAACAAAA	TGTGAGAAGC	CCAAACAAGA	ACTTGTGGGG	CAGGCTGCCA	8100
TCAAGGGAGA	GACAGCTGAA	GGGTTGTGTA	GCTCAATAGA	ATTAAGAAAT	AATAAGCTG	8160
TGTACAGCAG	TTTTGCCTGA	TTTATACAGG	CACGCCCCAA	GCCAGAGAGG	CTGTCTGCCA	8220
AGGCCACCTT	GCAGTCCCTG	GTTTGTAAAG	TAAGTCATAG	GTAACCTTTC	TGGTGAATTG	8280
CGTGGAGAAT	CATGATGGCA	GTTCTTGCTG	TTTACTATGG	TAAGATGCTA	AAATAGGAGA	8340
CAGCAAAGTA	ACACTTGCTG	CTGTAGGTGC	TCTGCTATCC	AGACAGCGAT	GGCACTCGCA	8400
CACCAAGATG	AGGGATGCTC	CCAGCTGACG	GATGCTGGGG	CAGTAACAGT	GGGTCCCATG	8460
CTGCCTGCTC	ATTAGCATCA	CCTCAGCCCT	CACCAGCCCA	TCAGAAGGAT	CATCCCAAGC	8520
TGAGGAAAAGT	TGCTCATCTT	CTTCACATCA	TCAAACCTTT	GGCCTGACTG	ATGCCTCCCG	8580
GATGCTTAAA	TGTGGTCACT	GACATCTTTA	TTTTTCTATG	ATTTCAAGTC	AGAACCTCCG	8640
GATCAGGAGG	GAACACATAG	TGGGAATGTA	CCCTCAGCTC	CAAGGCCAGA	TCTTCCTTCA	8700
ATGATCATGC	ATGCTACTTA	GGAAGGTGTG	TGTGTGTGAA	TGTAGAATTG	CCTTTGTTAT	8760
TTTTTCTTCC	TGCTGTGAGG	AACATTTTGA	ATACCAGAGA	AAAAGAAAAG	TGCTCTTCTT	8820
GGCATGGGAG	GAGTTGTAC	ACTTGCAAAA	TAAAGGATGC	AGTCCCAAAT	GTTTATAATC	8880
TCAGGGTCTG	AAGGAGGATC	AGAACTGTG	TATACAATTT	CAGGCTTCTC	TGAATGCAGC	8940
TTTTGAAAGC	TGTTCTTGGC	CGAGGCAGTA	CTAGTCAGAA	CCCTCGGAAA	CAGGAACAAA	9000
TGTCTTCAAG	GTGCAGCAGG	AGGAAACACC	TTGCCCATCA	TGAAAGTGAA	TAACCACTGC	9060
CGCTGAAGGA	ATCCAGCTCC	TGTTTGAGCA	GGTGTGTCAC	ACTCCACAC	TGAAACAACA	9120
GTTTCAATTTT	ATAGGACTTC	CAGGAAGGAT	CTTCTTCTTA	AGCTTCTTAA	TTATGGTACA	9180
TCTCCAGTTG	GCAGATGACT	ATGACTACTG	ACAGGAGAAT	GAGGAACTAG	CTGGGAATAT	9240
TTCTGTTTGA	CCACCATGGA	GTCACCCATT	TCTTTACTGG	TATTTGGAAA	TAATAATTCT	9300
GAATTGCAAA	GCAGGAGTTA	GCGAAGATCT	TCATTTCTTC	CATGTTGGTG	ACAGCACAGT	9360
TCTGGCTATG	AAAGTCTGCT	TACAAGGAAG	AGGATAAAAA	TCATAGGGAT	AATAAATCTA	9420
AGTTTGAAGA	CAATGAGGTT	TTAGCTGCAT	TTGACATGAA	GAAATTGAGA	CCTCTACTGG	9480
ATAGCTATGG	TATTTACGTG	TCTTTTTGCT	TAGTTACTTA	TTGACCCAG	CTGAGGTCAA	9540

FIG. 5c

Replacement Sheet

GTATGAACTC	AGGTCTCTCG	GGCTACTGGC	ATGGATTGAT	TACATACAAC	TGTAATTTTA	9600
GCAGTGATTT	AGGGTTTATG	AGTACTTTTG	CAGTAAATCA	TAGGGTTAGT	AATGTTAATC	9660
TCAGGGAAAA	AAAAAAAAAG	CCAACCCTGA	CAGACATCCC	AGCTCAGGTG	GAAATCAAGG	9720
ATCACAGCTC	AGTGCGGTCC	CAGAGAACAC	AGGGACTCTT	CTCTTAGGAC	CTTTATGTAC	9780
AGGGCCTCAA	GATAACTGAT	GTTAGTCAGA	AGACTTTCCA	TTCTGGCCAC	AGTTCAGCTG	9840
AGGCAATCCT	GGAATTTTCT	CTCCGCTGCA	CAGTTCCAGT	CATCCCAGTT	TGTACAGTTC	9900
TGGCACTTTT	TGGGTCAGGC	CGTGATCCAA	GGAGCAGAAG	TTCCAGCTAT	GGTCAGGGAG	9960
TGCCTGACCG	TCCCAACTCA	CTGCACTCAA	ACAAAGGCGA	AACCACAAGA	GTGGCTTTTG	10020
TTGAAATTGC	AGTGTGGCCC	AGAGGGGCTG	CACCACTACT	GGATTGACCA	CGAGGCAACA	10080
TTAATCCTCA	GCAAGTGCAA	TTTGCAGCCA	TTAAATTGAA	CTAACTGATA	CTACAATGCA	10140
ATCAGTATCA	ACAAGTGGTT	TGGCTTGGAA	GATGGAGTCT	AGGGGCTCTA	CAGGAGTAGC	10200
TACTCTCTAA	TGGAGTTGCA	TTTTGAAGCA	GGACACTGTG	AAAAGCTGGC	CTCCTAAAGA	10260
GGCTGCTAAA	CATTAGGGTC	AATTTTCCAG	TGCACTTTCT	GAAGTGTCTG	CAGTTCCCCA	10320
TGCAAAGCTG	CCCAAACATA	GCACTTCCAA	TTGAATACAA	TTATATGCAG	GCGTACTGCT	10380
TCTTGCCAGC	ACTGTCCCTC	TCAAATGAAC	TCAACAACAA	ATTTCAAAGT	CTAGTAGAAA	10440
GTAACAAGCT	TTGAATGTCA	TTAAAAAGTA	TATCTGCTTT	CAGTAGTTCA	GCTTATTTAT	10500
GCCCCACTAGA	AACATCTTGT	ACAAGCTGAA	CCTGGGGCT	CCAGATTAGT	GGTAAACCT	10560
ACTTTATACA	ATCATAGAAT	CATAGAATGG	CCTGGGTTGG	AAGGGACCCC	AAGGATCATG	10620
AAGATCCAAC	ACCCCCGCCA	CAGGCAGGGC	CACCAACCTC	CAGATCTGGT	ACTAGACCAG	10680
GCAGCCCAGG	GCTCCATCCA	ACCTGGCCAT	GAACACCTCC	AGGGATGGAG	CATCCACAAC	10740
CTCTCTGGGC	AGCCTGTGCC	AGCACCTCAC	CACCCTCTCT	GTGAAGAACT	TTTCCCTGAC	10800
ATCCAATCTA	AGCCTTCCCT	CCTTGAGGTT	AGATCCACTC	CCCCTTGTGC	TATCACTGTC	10860
TACTCTTGTA	AAAAGTTGAT	TCTCCTCCTT	TTTGGAAGGT	TGCAATGAGG	TCTCCTTGCA	10920
GCTTCTTCT	CTTCTGCAGG	ATGAACAAGC	CCAGCTCCCT	CAGCCTGTCT	TTATAGGAGA	10980
GGTGCTCCAG	CCCTCTGATC	ATCTTTGTGG	CCCTCCTCTG	GACCCGCTCC	AAGAGCTCCA	11040
CATCTTTCCT	GTAAGTGGGG	CCCCAGGCCT	GAATGCAGTA	CTCCAGATGG	GGCCTCAAAA	11100
GAGCAGAGTA	AAGAGGGACA	ATCACCTTCC	TCACCCTGCT	GGCCAGCCCT	CTTCTGATGG	11160
AGCCCTGGAT	ACAAGTGGCT	TTCTGAGCTG	CAACTTCTCC	TTATCAGTTC	CACTATTAAA	11220
ACAGGAACAA	TACAACAGGT	GCTGATGGCC	AGTGCAGAGT	TTTTCACACT	TCTTCATTTT	11280
GGTAGATCTT	AGATGAGGAA	CGTTGAAGTT	GTGCTTCTGC	GTGTGCTTCT	TCCTCCTCAA	11340
ATACTCCTGC	CTGATACCTC	ACCCACCTG	CCACTGAATG	GCTCCATGGC	CCCCTGCAGC	11400
CAGGGCCCTG	ATGAACCCGG	CACTGCTTCA	GATGCTGTTT	AATAGCACAG	TATGACCAAG	11460
TTGCACCTAT	GAATACACAA	ACAATGTGTT	GCATCCTTCA	GCACTTGAGA	AGAAGAGCCA	11520
AATTTGCATT	GTCAGGAAAT	GGTTTAGTAA	TTCTGCCAAT	TAAAACTTGT	TTATCTACCA	11580
TGGCTGTTTT	TATGGCTGTT	AGTAGTGGTA	CACTGATGAT	GAACAATGGC	TATGCAGTAA	11640
AATCAAGACT	GTAGATATTG	CAACAGACTA	TAAAATTCCT	CTGTGGCTTA	GCCAATGTGG	11700
TACTTCCCAC	ATTGTATAAG	AAATTTGGCA	AGTTTAGAGC	AATGTTTGAA	GTGTTGGGAA	11760
ATTTCTGTAT	ACTCAAGAGG	GCGTTTTTGA	CAACTGTAGA	ACAGAGGAAT	CAAAAGGGGG	11820
TGGGAGGAAG	TTAAAAGAAG	AGGCAGGTGC	AAGAGAGCTT	GCAGTCCCGC	TGTGTGTACG	11880
ACACTGGCAA	CATGAGGTCT	TTGCTAATCT	TGGTGCTTTG	CTTCCTGCCC	CTGGCTGCCT	11940
TAGGG						11945

FIG. 5d